

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
30 June 2005 (30.06.2005)

PCT

(10) International Publication Number
WO 2005/059016 A1

(51) International Patent Classification⁷: **C08K 3/00**, 3/06, 3/08, 3/32

(72) Inventor; and

(75) Inventor/Applicant (for US only): **DEME, Imants** [CA/CA]; 4400 Cedar Springs Rd, Burlington, Ontario L7R 3X4 (CA).

(21) International Application Number:
PCT/EP2004/053357

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TZ, TM, TN, TR, TT, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 8 December 2004 (08.12.2004)

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(25) Filing Language: **English**

Published:

— with international search report

(26) Publication Language: **English**

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(30) Priority Data:
03257777.7 10 December 2003 (10.12.2003) EP

(71) Applicant (for AE, AG, AL, AM, AT, AU, AZ, BA, BB, BE, BG, BR, BW, BY, BZ, CH, CN, CO, CR, CU, CY, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TZ, TM, TN, TR, TT, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW only): **SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. [NL/NL]**; Carel van Bylandtlaan 30, NL-2596 HR The Hague (NL).

(71) Applicant (for CA only): **SHELL CANADA LIMITED** [CA/CA]; 400 - 4th Avenue S.W., Calgary, Alberta T2P 2H5 (CA).

WO 2005/059016 A1

(54) Title: SULPHUR PELLET COMPRISING H₂S-SUPPRESSANT

(57) Abstract: The invention provides a sulphur pellet comprising at least one H₂S-suppressant. The invention further provides a process for the manufacture of sulphur pellets comprising at least one H₂S-suppressant, comprising the steps of: (a) mixing elemental sulphur, one or more H₂S suppressants and optionally a filler in a mixing unit to obtain a mixture; (b) shaping and/or pelletising the mixture obtained in step (a) in a pelletising unit to obtain H₂S-suppressant comprising sulphur pellets. The invention further provides a process for the manufacture of a sulphur-comprising asphalt paving mixture comprising the steps of: (i) preheating bitumen at a temperature of between 140 and 180 °C; (ii) preheating aggregate at a temperature of between 140 and 180 °C; (iii) mixing the hot bitumen with the hot aggregate in a mixing unit, wherein sulphur pellets comprising H₂S-suppressant according to the invention are added in at least one of the steps (i), (ii) or (iii). The invention also provides the use of a sulphur-comprising asphalt paving mixture comprising H₂S suppressant in the paving of roads.